

July 2015

## Comanche County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

A total of 10 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Comanche County economy.<sup>1</sup> These 10 sectors have a total direct output of approximately \$127 million and support 323.0 jobs in Comanche County. Running the model for all 10 sectors simultaneously produces the following results:

**Agriculture Contribution in Comanche County**

Impact Type <sup>2</sup>	Employment	% of Total Employment	Total Value Added <sup>3</sup>	% of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	% of Gross Regional Product
Direct Effect	323.0	22%	\$37,936,441	45%	\$127,484,601	152%
Indirect Effect	88.3	6%	\$4,181,786	5%	\$9,062,901	11%
Induced Effect	47.4	3%	\$2,639,481	3%	\$4,969,311	6%
Total Effect	458.8	31%	\$44,757,708	53%	\$141,516,812	169%

As shown in the above table, agriculture, food, and food processing supports 458.8 jobs, or 31% of the entire workforce in the county. These industries provide a total economic contribution of approximately \$142 million, roughly 169% of Gross Region Product (GRP). As noted below in the calculation of Gross Regional Product, imports and institutional sales are subtracted. Therefore, counties that import a relatively large amount of goods and services will have a reduced GRP which may lead to agricultural output being greater than GRP.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 10 agriculture, food, and food processing sectors is approximately \$45 million, or 53% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 53% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:  
[https://implan.com/index.php?option=com\\_content&view=category&id=19](https://implan.com/index.php?option=com_content&view=category&id=19)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value Added = Labor Income + Indirect Business Taxes + Other Property Type Income

<sup>4</sup> GRP = Final Demand of Households + Governments Expenditures + Capital + Exports - Imports - Institutional Sales

<sup>5</sup> Output = Intermediate Inputs + Value Added

In the top ten by employment, Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming is the top employer in the agriculture industry with 133.5 employees. This table also shows the amount of jobs that are created by the agriculture industry in Comanche County.

**Top 10 Industries Affected by Employment**

Sector Description:	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming.....	133.5	\$42,628,765
Mayonnaise, dressing, and sauce manufacturing.....	56.6	\$41,014,537
All other crop farming.....	47.1	\$7,370,671
Grain farming.....	43.2	\$18,647,736
Farm machinery and equipment manufacturing.....	25.7	\$15,249,212
Support activities for agriculture and forestry.....	23.2	\$1,333,726
Animal production, except cattle and poultry and eggs.....	14.0	\$1,743,936
Truck transportation.....	12.3	\$1,129,080
Wholesale trade.....	9.7	\$1,939,060
Full-service restaurants.....	8.7	\$323,028

The Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming industry directly contributes approximately \$43 million to Comanche County’s economy. This table also shows how much revenue is generated in other industries by having a strong agriculture industry.

**Top 10 Industries Affected by Output**

Sector Description:	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming.....	133.5	\$42,628,765
Mayonnaise, dressing, and sauce manufacturing.....	56.6	\$41,014,537
Grain farming.....	43.2	\$18,647,736
Farm machinery and equipment manufacturing.....	25.7	\$15,249,212
All other crop farming.....	47.1	\$7,370,671
Wholesale trade.....	9.7	\$1,939,060
Animal production, except cattle and poultry and eggs.....	14.0	\$1,743,936
Owner-occupied dwellings.....	0.0	\$1,506,221
Support activities for agriculture and forestry.....	23.2	\$1,333,726
Truck transportation.....	12.3	\$1,129,080

